

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	05/26/2015 05/26/2015	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	2
LM End	0.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD2091_01_s _ 2013_2				
Action/Comments					
Inspector Comments: The LMA has copy of O & M manual on file at district office.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	4
LM End	0.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD2091_01_s _ 2013_4				
Action/Comments					
Inspector Comments: The LMA maintains adequate flood fight supplies and equipment.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	5
LM End	0.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD2091_01_s _ 2013_5				
Action/Comments					
Inspector Comments: The LMA maintains flood readiness.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Right	7.46	05/26/2015 05/26/2015	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	12
LM End	7.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation				o
					o
DWR ID	DWR_RD2091_01_s_2015_12				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : SP_2015_RD2091_318_12_20150527_00009.jpg



Looking at typical view of landward slope.

LM Start	0.00	Rating **	A	Issue No.	13		
LM End	7.45	Issue Type +	Ma	Location *	WS		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start	End		
Item	Vegetation				o		o
					o		o
DWR ID	DWR_RD2091_01_s_2015_13						
Action/Comments							
Control annual grass and weeds on the levee slopes and easements.							

Photo 1 of 1 : SP_2015_RD2091_318_13_20150527_00010.jpg



Looking south at typical view of waterward slope.

LM Start	2.23	Rating **	A/W	Issue No.	54
LM End	2.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control				o
					o
DWR ID	DWR_RD2091_01_s_2012_54				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	05/26/2015 05/26/2015	Richard Willoughby

LM Start	4.14	Rating **	A/W	Issue No.	1
LM End	4.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.503555 °	37.503555 °
				-121.081932 °	-121.081932 °
DWR ID	DWR_RD2091_01_s _ 2012_1				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	5.66	Rating **	M	Issue No.	11
LM End	5.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.486090 °	37.485839 °
				-121.067612 °	-121.067357 °
DWR ID	DWR_RD2091_01_s _ 2015_11				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comments: Several rodent holes noted at the base of the tree on the landward toe.					

Photo 1 of 1 : SP_2015_RD2091_318_11_20150527_00008.jpg



Looking at typical view of rodent holes on the landward slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.31	05/26/2015 05/26/2015	Richard Willoughby

LM Start	0.03	Rating **	M	Issue No.	1
LM End	0.03	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.482523 °	37.482523 °
				-121.051103 °	-121.051103 °
DWR ID	DWR_RD2091_02_s_2012_1				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

LM Start	0.03	Rating **	M	Issue No.	1 (cont)
LM End	0.03	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : SP_2015_RD2091_319_1_20150309_00001.jpg



Looking east at untrimmed trees on waterward slope. (Fall 2014)

Photo 2 of 2 : SP_2015_RD2091_319_1_20150309_00002.jpg



Looking east at untrimmed tree on waterward slope. (Spring 2014)

LM Start	0.05	Rating **	M	Issue No.	2
LM End	0.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.482815 °	37.483306 °
				-121.050849 °	-121.050302 °
DWR ID	DWR_RD2091_02_f_2012_2				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Control tumble weeds on landward slope.					

Photo 1 of 1 : SP_2015_RD2091_319_2_20150309_00003.jpg



Looking north at tumble weeds on landward slope.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.31	05/26/2015 05/26/2015	Richard Willoughby

LM Start	0.18	Rating **	M	Issue No.	3
LM End	0.18	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.484342 °	37.484342 °
				-121.049848 °	-121.049848 °
DWR ID	DWR_RD2091_02_f_2012_3				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : SP_2015_RD2091_319_3_20150309_00004.jpg



Looking north at untrimmed tree on waterward slope.

LM Start	0.23	Rating **	M	Issue No.	14
LM End	0.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.484917 °	37.485418 °
				-121.050224 °	-121.049933 °
DWR ID	DWR_RD2091_02_s_2014_14				
Action/Comments					
Trim trees to at least five feet above ground level. Inspector Comments: Control trees on waterward slope.					

Photo 1 of 1 : SP_2015_RD2091_319_14_20150527_00013.jpg



Looking northeast at untrimmed tree on waterward slope.

LM Start	0.28	Rating **	M	Issue No.	4
LM End	0.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.485447 °	37.485447 °
				-121.049750 °	-121.049750 °
DWR ID	DWR_RD2091_02_f_2012_4				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : SP_2015_RD2091_319_4_20150309_00005.jpg



Looking east at trimmed trees on landside slope and toe.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	